



LASER RANGEFINDER YARDAGE PRO



Lit. # 98-0030/04-02

INSTRUCTION MANUAL

Your BUSHNELL YARDAGE PRO is a precision instrument designed to provide many years of enjoyment. This booklet will help you achieve optimum performance by explaining its adjustments and features as well as how to care for this precise laser rangefinding instrument. To ensure optimal performance and longevity, please read these instructions before using your BUSHNELL YARDAGE PRO.

INTRODUCTION

The BUSHNELL YARDAGE PRO emits invisible, eyesafe, infrared energy pulses. Sophisticated circuitry and a high-speed clock are used to instantaneously calculate distances, by measuring the time it takes for each pulse to travel from the rangefinder, to the target, and back.

The ranging accuracy of the BUSHNELL YARDAGE PRO is plus or minus one yard / meter under most circumstances. The maximum range of the instrument depends on the reflectivity of the target. The maximum distance for most objects is 700 yards / 640 meters while for highly reflective objects the maximum is 999 yards / 913 meters. Note: You will get both longer and shorter maximum distances depending on the reflective properties of the particular target and the environmental conditions at the time the object is being distanced to.

The color, surface finish, size and shape of the target all affect reflectivity and range. The brighter the color, the longer the range. Red is highly reflective, for example, and allows longer ranges than the color black, which is the least reflective color. A shiny finish provides more range than a dull one. A small target is more difficult to range than a larger target. The angle to the target also has an effect. Shooting to a target at a 90 degree angle (where the target surface is perpendicular to the flight path of the emitted energy pulses) provides good range while a steep angle on the other hand, provides limited ranging. In addition, lighting conditions (e.g. the amount of sunlight) will affect the ranging capabilities of the unit. The less light (e.g. overcast skies) the farther the unit's maximum range will be. Conversely, very sunny days will decrease the unit's maximum range.

OPERATIONAL SUMMARY

While looking through the monocular, depress the power button once to activate the inview display system (LCD). Aim the BUSHNELL YARDAGE PRO at a target at least 20 yards away, depress and hold the power button down until range reading is displayed. Release the power button. Note: Once activated, the BUSHNELL YARDAGE PRO's LCD will remain active and display the last distance measurement for 30 seconds. You can depress the power button again at any time to distance to a new target. As with any laser device, it is not recommended to directly view the emissions for long periods of time with magnified lenses.

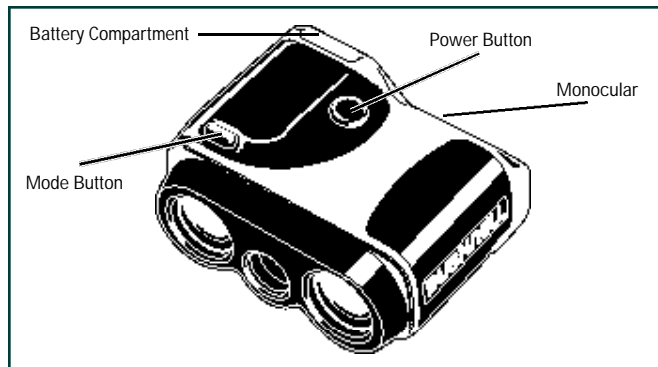


FEATURES

The BUSHNELL YARDAGE PRO's sophisticated circuitry allows you to select between various units of measure and targeting modes. In addition, your BUSHNELL YARDAGE PRO's LCD incorporates illuminated indicators that advise you when the laser is active, what the quality level (a measure of reflectivity) of the target is, what the precision tolerances of a specific measurement are and when the battery charge is low. A summary of these features is presented below:

UNIT OF MEASURE OPTIONS

The BUSHNELL YARDAGE PRO can be used to measure distances in yards or meters. The unit of measure indicators are located in the lower right portion of the LCD. To select between yards and meters, look through the monocular, depress the "mode" button and hold it down for approximately 5 seconds. If you are changing from yards to meters, a change in unit of measure will be indicated by the illumination of the METER indicator while the YARD indicator is turned off. If you are changing from meters to yards, the opposite will occur. Note: The BUSHNELL YARDAGE PRO will return to the last setting used, each time the unit is turned on.



TARGETING MODES

Standard (LCD Indicator - none) This setting allows most targets to be distanced up to 700 yards. Used for moderately reflective targets that are typical of most distancing situations. The minimum distance in the standard mode is 20 yards.

SCAN (LCD Indicator - "SCAN") This mode allows the range to be continuously updated for 10 seconds when the fire button remains depressed. It can be used to scan an area containing several objects or a single object that is moving. NOTE: Objects further away require a slower scanning pace than objects a closer distance. The minimum distance in this mode is the same as in the standard mode.

To select between these modes, while looking through the monocular, depress and release the mode button. Each successive depression of the mode button will activate a different mode designation in the following order: 1) Standard (no indicator), 2) Scan ("SCAN"), NOTE: The BUSHNELL YARDAGE PRO will return to the last setting used, each time the unit is turned-on.

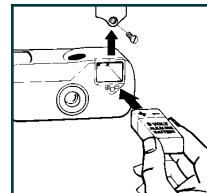
ILLUMINATING INDICATORS

ACTIVE LASER (LCD Indicator - "LASER") - Located in the upper left portion of the LCD. When illuminated, indicates that energy pulses are being emitted from unit.

TARGET QUALITY GAUGE (LCD Indicator - "TARGET QUALITY") - Located in the upper middle portion of the LCD. Gauge indicating amount of energy pulses being received back from the target. Gauge is calibrated to fill squares from left to right. The higher the number of returning energy pulses, the greater the number of squares that will fill with illumination. This gauge can be used to scan across a target that is difficult to acquire to find the most reflective point for ranging (see *Trouble Shooting Table*).

PRECISION PARAMETER INDICATOR (LCD Indicator - "PRECISION") - When illuminated, indicates the distance measurement is within plus or minus 1 yard or meter. If it is not illuminated after obtaining a measurement, the distance measurement is within plus or minus 3 yards or meters.

LOW BATTERY CHARGE (LCD Indicator - "BATT") - When illuminated, indicates the battery charge is low and battery should be replaced with a 9-volt alkaline battery.



SPECIFICATIONS

OPTICAL DESIGN

The BUSHNELL YARDAGE PRO features a Perma Focus® monocular optical system for viewing your target. A liquid crystal display (LCD) is mounted within the optical system and when activated, displays a reticle for targeting, yard / meter and mode designations, a target quality gauge, as well as precision and low

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battery indicators. Inherent in the manufacturing process are small black spots that appear in the optical system. These are a natural characteristic of the LCD, cannot be fully eliminated in the manufacturing process and do not affect the distancing performance of the unit.

- Dimensions: 2.25 x 3.5 x 4.75 inches
- Weight: 10.4 oz.
- Accuracy: +/- 1 yard
- Magnification: 4x
- Display: LCD (even and odd numbers)
- Power Source: 9 - volt alkaline battery (user supplied)
- FOV: 300 ft. @ 1000 yards
- Total Eye Relief: 25mm
- Exit Pupil: 4.2 mm
- Water resistant
- Modes: Standard & Scan
- 20-yard / 18 meters minimum, 999 yards / 913 meters to a reflective target, 700 yards / 640 meters to a tree, 300 yards / 274 meters to a flag
- Includes carrying case

CLEANING

Gently blow away any dust or debris on the lenses (or use a soft lens brush). To remove dirt or fingerprints, clean with a soft cotton cloth, rubbing in a circular motion. Use of a coarse cloth or unnecessary rubbing may scratch the lens surface and eventually cause permanent damage. For a more thorough cleaning, photographic lens tissue and photographic-type lens cleaning fluid or isopropyl alcohol may be used. Always apply the fluid to the cleaning cloth - never directly on the lens.

WARRANTY / REPAIR

TWO-YEAR LIMITED WARRANTY

Your Bushnell® product is warranted to be free of defects in materials and workmanship for two years after the date of purchase. In the event of a defect under this warranty, we will, at our option, repair or replace the product, provided that you return the product postage prepaid. This warranty does not cover damages caused by misuse, improper handling, installation, or maintenance provided by someone other than a Bushnell Authorized Service Department.

Any return made under this warranty must be accompanied by the items listed below:

- 1) A check/money order in the amount of \$10.00 to cover the cost of postage and handling
- 2) Name and address for product return
- 3) An explanation of the defect
- 4) Proof of Date Purchased
- 5) Product should be well packed in a sturdy outside shipping carton, to prevent damage in transit, with return postage prepaid to the address listed below:

IN U.S.A. SEND TO:

Bushnell Performance Optics
Attn.: Repairs
8500 Marshall Drive
Lenexa, Kansas 66214

IN CANADA SEND TO:

Bushnell Performance Optics
Attn.: Repairs
25A East Pearce Street, Unit 1
Richmond Hill, Ontario L4B 2M9

For products purchased outside the United States or Canada please contact your local dealer for applicable warranty information. In Europe you may also contact Bushnell at: 33 141 44 94 80

Bushnell Performance Optics Service Centre
Columbusstraat 25
3165 AC Rotterdam
The Netherlands

* This warranty gives you specific legal rights.
You may have other rights which vary from country to country.

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TROUBLE SHOOTING TABLE

If unit does not turn on - LCD does not illuminate:

- Depress power button.
- Check and if necessary, replace battery.

If unit powers down (display goes blank when attempting to power the laser):

- The battery is either weak or low quality. Replace the battery with a good quality alkaline battery.

There is no reset button to clear last range reading before ranging another target:

- The last range reading does not need to be cleared before ranging another target. Simply aim at the new target using the LCD's reticle, depress the power button and hold until new range reading is displayed.

Target range cannot be obtained:

- Make sure LCD is illuminated.
- Make sure that the power button is being depressed (as opposed to mode button).
- Make sure that nothing, such as your hand or finger, is blocking the objective lenses (lenses closest to the target) that emit and receive the laser pulses.
- Make sure unit is held steady while depressing power button.
- A less reflective target will require you to scan its surface to find the most reflective point in order to obtain a distance. To do this, hold the power button and scan LCD reticle across the target's surface to try and register a "hit" (indicated when the first square illuminates), stabilize the unit in place and hold the power button until a reading is displayed.

Before returning for repair, consult the Trouble Shooting Table.